CLAIMS

What is claimed is:

1.   A method for assigning computational processes in a computer system to workload management classes, the method comprising:

5   installing on the computer system an executable file from a software installation package, wherein the software installation package includes a specification of workload management properties for the executable file, including a definition of a workload management class;

        executing a process in dependence upon the executable file; and

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        assigning the process to the workload management class.

2.   The method of claim 1 wherein the workload management class definition further comprises a class name, a priority ranking, and an inheritance attribute.

3.   The method of claim 1 wherein the specification of workload management properties further comprises minimum values and maximum values for CPU, memory, and disk I/O shares for the executable file.

4.   The method of claim 1 wherein installing an executable file further comprises:

        configuring the workload management class in dependence upon the workload management properties; and

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        storing a class name of the workload management class in association with a pathname for the executable file.

5.   The method of claim 1 wherein installing an executable file further comprises storing a class name for the workload management class in association with a pathname for the executable file.

6.   The method of claim 5 wherein storing a class name for the workload management class in association with a pathname for the executable file further comprises storing the class name in the executable file.

7.   The method of claim 5 wherein storing a class name for the workload management class in association with a pathname for the executable file further comprises storing the class name in a data structure that represents the executable file in an operating system.

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8.   The method of claim 5 wherein assigning the process to the workload management class further comprises:

        identifying the workload management properties for the workload
5   management class in dependence upon the pathname; and

        configuring the workload management class in dependence upon the workload management properties.

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9.   A system for assigning computational processes to workload management
        classes, the system comprising:

5   means for installing on a computer system an executable file from a software
        installation package, wherein the software installation package includes a
        specification of workload management properties for the executable file,
        including a definition of a workload management class;

        means for executing a process in dependence upon the executable file; and

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        means for assigning the process to the workload management class.

10.   The system of claim 9 wherein the workload management class definition
        further comprises a class name, a priority ranking, and an inheritance attribute.

11.   The system of claim 9 wherein the specification of workload management
        properties further comprises minimum values and maximum values for CPU,
        memory, and disk I/O shares for the executable file.

12.   The system of claim 9 wherein means for installing the executable file further
        comprises:

5   means for configuring the workload management class in dependence upon
        the workload management properties; and

        means for storing a class name of the workload management class in
        association with a pathname for the executable file.

13.   The system of claim 9 wherein means for installing an executable file further
        comprises means for storing a class name for the workload management class

in association with a pathname for the executable file.

14. The system of claim 13 wherein means for assigning the process to the workload management class further comprises:

means for identifying the workload management properties for the workload management class in dependence upon the pathname; and

means for configuring the workload management class in dependence upon the workload management properties.

15.   A computer program product for assigning computational processes in a
computer system to workload management classes, the computer program
product comprising:

5   a recording medium;

means, recorded on the recording medium, for installing on the computer
system an executable file from a software installation package, wherein the
software installation package includes a specification of workload

10   management properties for the executable file, including a definition of a
workload management class;

means, recorded on the recording medium, for executing a process in
dependence upon the executable file; and

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means, recorded on the recording medium, for assigning the process to the
workload management class.

16.   The computer program product of claim 15 wherein the workload
management class definition further comprises a class name, a priority
ranking, and an inheritance attribute.

17.   The computer program product of claim 15 wherein the specification of
workload management properties further comprises minimum values and
maximum values for CPU, memory, and disk I/O shares for the executable
file.

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18.   The computer program product of claim 15 wherein means, recorded on the
recording medium, for installing the executable file further comprises:

means, recorded on the recording medium, for configuring the workload

5   management class in dependence upon the workload management properties; and

means, recorded on the recording medium, for storing a class name of the workload management class in association with a pathname for the executable

10   file.

19.   The computer program product of claim 15 wherein means, recorded on the recording medium, for installing an executable file further comprises means, recorded on the recording medium, for storing a class name for the workload management class in association with a pathname for the executable file.

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20.   The computer program product of claim 19 wherein means, recorded on the recording medium, for assigning the process to the workload management class further comprises:

5   means, recorded on the recording medium, for identifying the workload management properties for the workload management class in dependence upon the pathname; and

means, recorded on the recording medium, for configuring the workload

10   management class in dependence upon the workload management properties.